In February 1992 the Bureau of Land Management published a handbook which contains reclamation standards for BLM and Indian lands. Specific to exploration projects is information on drill hole plugging; reclamation of exploration access; drill pad reclamation; mud pit design and reclamation; and reclamation of exploration trenches, mine excavations and bladed areas. This publication, BLM Manual Handbook H-3042-1, dated February 7, 1992, and entitled, Solid Minerals Reclamation Handbook, should be consulted for current BLM reclamation standards.

All operations, including casual use and operations under either a notice or a plan of operations, shall be conducted to prevent unnecessary or undue degradation of federal lands and shall comply with all pertinent federal and state law, particularly the Clean Air Act; the Federal Water Pollution Control Act; and standards for disposal and treatment of solid waste, including regulations issued pursuant to the Solid Waste Disposal Act. The operator shall also take such action as may be needed to prevent adverse impacts to threatened or endangered species and their habitat as well as cultural and/or paleontological resources.

◆ Drill Hole Plugging Requirements

All holes drilled for the purpose of mineral exploration should be plugged, sealed, or capped in a manner consistent with the state regulations.

The proper abandonment of drill holes will be achieved when:

- All aquifers are adequately cemented or otherwise isolated to prevent migration of liquids or gases.
- The surface hole is properly plugged to prevent injury to the public, livestock, and wildlife.
- 3. The surface is properly cleaned up and reclaimed according to the approved reclamation plan.

♦ Reclamation Surety Requirements

No bond is required for operations that constitute casual use. Bonding is required for operations at a notice or plan-of-operations level as a prerequisite to operating. Bonding is required to be sufficient to cover 100% of the estimated costs of reclamation, with a minimum rate of \$1,000 per disturbed acre (or portion thereof) at a notice level, and a \$2,000 per-disturbed-acre minimum at a plan-of-operation level. Reclamation cost estimates must assume a third-party contractor using equipment from off-site, and the cost estimate must be endorsed by a third-party engineer certified in the affected state.

This bonding requirement became effective on March 31, 1997. Existing notices on file with the BLM that cover active ongoing operations predating the effective date of the regulations are not required to provide certification of bonding until a new notice is filed.

In place of an individual bond on each separate operation, a blanket bond covering statewide or nationwide operations may be furnished at the option of the operator. In addition, memoranda of understanding exist with several states which allow for the posting of a single bond with the state. BLM will honor the financial guarantee chosen by the state if the BLM finds the instrument held by the state acceptable. (Specifically, the BLM will not accept mortgages or liens on real property.)

ALASKA

RESPONSIBLE AGENCY

Department of Natural Resources Division of Mining/Water Management 3601 'C' Street, Suite 800 Anchorage, Alaska 99503-5935

Telephone:

907/269-8649

Fax 907/563/1853

Contact:

Mitch Henning

Manager, Mine Permitting/Reclamation

The Department of Natural Resources, Division of Mining and Water Management, is responsible for permitting all exploration, development and mining of mineral resources on state claims in Alaska; is the central coordinating agency for permitting of all lode/placer mineral exploration activity and placer mining activity on state, federal and private lands in Alaska; administers all state mining claims and provides mining information; and administers laws pertaining to mining. The Division of Mining and Water Management is also responsible for the enforcement of all statutory mining reclamation requirements on federal, state, municipal and private lands and manages a state-wide reclamation bond pool for mining operations that require bonding.

REGULATORY AUTHORITY

- Alaska Statutes Title 27 (Mining)
- Alaska Statutes Title 38.05 (Alaska Land Act)
- 3. Alaska Administrative Code, 11 AAC 86 (Mining Rights)
- 4. Alaska Administrative Code, 11 AAC 96 (Miscellaneous Land Use)
- Alaska Statutes 27.19 (Mining Reclamation)
- 6. Alaska Administrative Code, 11 AAC 97 (Mining Reclamation Regulations)

PERMITTING REQUIREMENTS

♦ General Requirements

Exploration activities are permitted under the state and federal mining laws and must also comply with the regulations concerning water quality, habitat protection and waste disposal. There are no state regulations unique to hard rock mineral exploration.

Most exploration activity in Alaska is permitted through the state's coordinated permitting process, the Annual Placer Mining Application. Despite its name, this application is used for all types of exploration, not just placer-related activity. The Division of Mining and Water Management receives, reviews and approves applications, then distributes them to thirteen other state and federal agencies. These agencies receive the applications as though directly from the applicant and they issue permits and approvals, if required, under their statutory and regulatory authority.

Generally, the land management agency on which the activity is taking place is the agency that issues authorization for the activity. The Division of Mining and Water Management issues the permits for all activity on state mining claims, but the Bureau of Land Management, U.S. Park Service, U.S. Forest Service and the U.S. Fish and Wildlife Service issue authorizations for the land managed by that agency. Exploration activity on the 44 million acres of Native lands in Alaska is managed by 13 different Native corporations. In addition, vehicular or equipment crossing of anadromous fish streams in the state requires a permit from the Alaska Department of Fish and Game, regardless of land status.

♦ Specific Requirements

- Specific requirements are set by the land manager with jurisdiction for the land on which the activity takes place. Bonding is required for activities disturbing five acres or more. Reclamation is required of all disturbed areas on state and federal public lands. Top soil must be saved, exploration trenches must be backfilled and covered with top soil, and drill pads/mud pits reclaimed. Reclamation of access roads is site specific. The land manager sets reclamation/closure requirements in access permits.
- Any exploration activity in the <u>state</u> may be permitted using an Annual Placer Mining Application (APMA) available from the Division of Mining and Water Management (copy attached). The APMA permitting process is used for all exploration activity in the state, not just placer-related exploration. The Division of Mining and Water Management distributes this application to other agencies and therefore most required permits can be received from one application.

3. A permit is required for the following activities on state lands:

- a. Cross country travel or construction of access roads. The state may place seasonal restrictions on cross country travel. Travel may be limited to the winter months when the ground is frozen.
- b. Crossing of all anadromous fish streams;

c. The use of explosives and explosive devices;

d. The use of any equipment, other than light portable field equipment (picks, shovels, pans, hand earth augers, and backpack power drills), vehicles (snow machines, jeeps, pickups, and weasels), airborne equipment, and marine equipment;

e. The use of hydraulic prospecting equipment;

f. Drilling to a depth in excess of 300 feet, including exploratory drilling or stratigraphic test wells on state land not under oil or gas lease;

g. Any activity that the Director of Mining and Water Management determines may result in unnecessary harm to land having special, scenic, historic, archaeological, scientific, biological, recreational, or other special resource values.

- h. geophysical exploration for minerals
- 4. The application for a permit must include the following information:
 - A map showing the general location of all activities, claims locations, and entire access route to claim block of all equipment for which a permit is required;
 - A description of the proposed activity and the type of equipment which will be used; and
 - c. A description of reclamation activity that will be conducted.
- 5. An annual application fee of \$100 Multi-year permits must pay annual fees for the full term at time of application.
- Multi-year permits are granted for the term requested, not to exceed five years.
 Permit may be extended for any number of consecutive periods, each period not to exceed one year.
- All operations within the boundaries of the Alaska Coastal Management Program must go through a coordinated coastal consistency review. This adds 30 to 60 days to the permitting process.

Reclamation Standards

The state reclamation act does not apply directly to exploration operations. Reclamation of exploration activity is required under the state's Miscellaneous Land Use permit stipulations. Reclamation of activity on federal lands is required under federal authorities.

General stipulations for activity on state land include:

- Activities employing wheeled or tracked vehicles shall be conducted in such a manner as to minimize surface damage.
- Existing roads and trails shall be used whenever possible. Trail widths will be kept to the minimum necessary.
- 3. All activities shall be conducted in a manner that will minimize disturbance of drainage systems, changing the character, polluting, or silting of streams, lakes, ponds, water holes, seeps, and marshes, or disturbance of fish and wildlife resources. Cuts, fills, and other activities causing any of the above disturbance if not repaired immediately, are subject to such corrective action as may be required by the Department.
- 4. The Department may prohibit the disturbance of vegetation within 300 feet of any waters located in specifically designated areas.
- The Department may prohibit the use of explosives within one-fourth mile of designated fishery waters.
- Trails and campsites shall be kept clean. All garbage and foreign debris shall be eliminated by removal, burning, or burial, unless otherwise authorized.
- All survey monuments, witness corners, reference monuments, mining claim posts, and bearing trees shall be protected against destruction, obliteration, or damage.
- Every reasonable effort shall be made to prevent, or suppress any fire in the operating area.
- 9. Holes, pits, and excavations shall be filled, plugged or repaired to the satisfaction of the Department. It is required that top soil be saved and all exploration trenches be backfilled and covered with top soil to allow natural regrowth of the site.

♦ Drill Hole Plugging Requirements

There are no specific engineering standards for drill hole plugging. The Alaska Department of Environmental Conservation may require sealing of aquifers with a wall cake or cement plug. At a minimum, most land managers require that each hole be capped with an earthen plug.

♦ Reclamation Surety Requirements

Bonding of exploration activity is required for disturbances of five acres or more, per Alaska Statute 27.19. The "State-Wide Bond Pool Form" (copy attached) may be submitted with the APMA to satisfy this requirement. Activities of less than five acres, on state or private land, do not require bonding. The Commissioner of Natural Resources establishes the amount of the bond to reflect the reasonable and probable costs of reclamation but the bond may not exceed \$750 per acre. Participants in the bonding pool contribute an initial deposit not to exceed fifteen percent of the reclamation bond plus an additional non-refundable annual fee not to exceed five percent of the reclamation bond. The fifteen percent deposit is refunded upon satisfactory reclamation, or can be applied to a new reclamation plan elsewhere.

OTHER AGENCY CONTACTS

Alaska Department of Environmental Conservation 1001 Nobel Street, Suite 350 Fairbanks, Alaska 99701 907/451-2360

Alaska Department of Fish and Game Habitat Restoration Division 1300 College Road Fairbanks, Alaska 99701-1599 907/451-6192

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINING AND WATER MANAGEMENT

TONY KNOWLES, GOVERNOR

O 3601 C STREET, SUITE 800 ANCHORAGE, ALASKA 99503-5935 PHONE: (907) 269-8649 (907) 563-1853

Dear Miner:

Enclosed is the 1997 Annual Placer Mining Application (APMA), along with associated forms that may or may not require submission. Please use 1997 forms only – previous editions are obsolete. Incomplete applications and those submitted without required maps and applicable forms will be returned – thus

The Division of Mining & Water Management urges you to submit your application early! For activity involving cross country access of equipment or operations within Alaska Coastal Zone Management boundaries, you are advised to submit the APMA by December 31, 1996. In addition:

By December 31, 1996:

- 1) Operations with a total disturbance of less than five acres, are required to submit an Annual Reclamation Statement,
- 2) Non-refundable Bond Pool Maintenance Fees are required for those previously bonded operations where reclamation has not been approved.

if you are operating on State land:

- 1) Regulation changes occurred in 1995 which allow the Division to issue "multi-year" permits for a maximum term of five years (11 AAC 96.040) indicate on the APMA if you are applying for such. APMA processing fees of \$100.00 per year apply, i.e three years \$300.00, payable at time of application.
- 2) Operators/Lessees on State mining claims, who are not claim owners of record, must submit a completed Notice of Operator Authorization form, before the APMA will be accepted as complete.
- 3) Placement and use of camp facilities on State land must be: necessary for mining; requested in writing; and, approved in advance. Existing facilities require permitting through the APMA process.
 - 4) The Access Section of the APMA has been modified, please read this section carefully.

If your intended activity involves suction dredging:

- 1) The Environmental Protection Agency (EPA) requires suction dredge operators to obtain a National Pollutant Discharge Elimination System (NPDES) Permit. Contact the EPA well in advance of your intended "start-up" date to determine if your operation can be permitted under the General Permit for Alaskan Placer Mining in Alaska which has been supported by the 1997 mining the EPA has drafted a Modified General Permit for Placer Mining in Alaska which may be in effect by the 1997 mining season. The EPA may be reached at 1-800-424-4372, if you have any questions regarding the NPDES Permits.
- 2) Suction dredges, with an intake nozzle exceeding four inches, require authorization from the Army Corps of Engineers (COE). These can be permitted through the General Permit for Placer Mining Activities within Alaska.

A COE "404" permit may be required for any mining activity utilizing mechanized equipment on "wetlands", including access construction — again, contact the COE Permit Review Section well in advance of intended "start-up". A Toll Free Number 1-800-478-2712 is available for calls originating within Alaska; or dial them at (907) 753-2712 otherwise.

If assistance is required, contact one of our offices -- in Anchorage @ (907) 269-8649; or in Fairbanks @ (907) 461-2790.

Permitting Manager

Enclosure 1997 APMA, w/Atch

STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF PARKS AND OUTDOOR RECREATION OFFICE OF HISTORY AND ARCHAEOLOGY TONY KNOWLES, GOVERNOR

3601 C STREET, SUITE 1278 ANCHORAGE, ALASKA 99503-5921 PHONE: (907)269-8721 FAX: (907)269-8908

October 16, 1996

Dear Miners:

We need your help! Under state and federal laws we review projects to protect cultural resources. During our reviews of the Annual Placer Mining Applications (APMA), we have observed that a high percentage of mining claims are located in areas where historic mining operations have taken place. Since only 5 percent of the entire state has been surveyed for archaeological, historic, and paleontological sites, we need help gathering site location information statewide.

To reduce costs to you and the state, we are requesting information about what sites you have observed on your mining claims. Please send photographs, a brief site description, and topographic maps, which pinpoint locations of sites. This information will help us work with you to minimize impacts to these sites. Our objective is not to impede your mining operations, but to manage these significant resources through avoidance.

Types of cultural resources most commonly found on mining claims are historic mining equipment, ditches and associated water control features, cabins, bridges, fossils, graves, and historic mining complexes.

Please help us inventory Alaska's rich mining history. By working together we can preserve our mining heritage.

If you have any questions, please contact Tim Smith at 269-8722 or Michele Jesperson at 269-8720.

Sincerely,

Judith E. Bittner

State Historic Preservation Officer

JEB:mmj

STATE OF ALASKA



1997 ANNUAL PLACER MINING APPLICATION (APMA)

for MINING PERMITS, LAND USE PERMITS; WATER USE PERMIT; RECLAMATION PLAN APPROVAL; AND MINING LICENSE

GENERAL: To conduct exploration or mining activities in the State of Alaska, permits and licenses may be required from several State and Federal agencies. This application, when completed, will be distributed by the Division of Mining & Water Management to those agencies involved in the permitting process and represents

OPERATIONAL PERMITS: For most exploration and mining operations, the completion of this form should satisfy the application requirements for the following

MiscellaneousLandUsePermit (Mining Activity on State Claims); and Reclamation Plan of Approval for a Mining Operation -- Issued by the Department of

Miscellaneous Land Use Permit (Access/Surface Activity on State Land Other Than Mining Claims) - Issued by the Department of Natural

Water Use Permit - Issued by the Department of Natural Resources, Division of Mining & Water Management Fish Habitat Permits (Title 16) - Issued by the Department of Fish and Game, Habitat & Restoration Division

Alaska Mining License - Issued by the Department of Revenue as a license to pay tax - not a license to mine.

Alaska Coastal Management Program (ACMP) Consistency Review - Administered by the Division of Governmental Coordination Annual Notice or Plan of Operation - Bureau of Land Management

OTHER PERMITS THAT MAY BE REQUIRED:

Waste Water Discharge Permit - Separate application is required by the U.S. Environmental Protection Agency to receive a National Pollutant Discharge Elimination System (NPDES) Permit.

Wetlands Permit - Separate application is required by the U.S. Army Corps of Engineers to receive a Wetlands Permit.

RECLAMATION: Applications must be submitted early to assure the issuance of permits and approval of reclamation plans before commencement of field operations. In accordance with Alaska Statute 27.19, a miner may not engage in mining activity, involving more than five acres of disturbance, until a reclamation plan has been approved. Operations under five acres must submit a Letter of Intent to Conduct Reclamation and file an Annual Reclamation Statement not later

BONDING: All mining operations, with a mining disturbance of five acres or more, must be bonded per Alaska Statute 27.19. The "State Wide Bond Pool Form", included with this application, may be submitted with the APMA to satisfy this requirement or individual performance bonds may be provided. Operations of less than five acres, on State or Private land, do not require bonding.

AMENDED PLANS: Changes in operation must be submitted in writing and approved in advance before the commencement of such activity.

FEES: A \$100.00 processing fee must accompany the application — "Multi-Year" permit applications require \$100.00 per year. Make check or money order payable to "ALASKA DEPARTMENT OF REVENUE." (NOTE: Water right fees are separate. Applicant will be contacted if required.)

STRUCTURES/CAMP FACILITIES: The placement and use of all surface structures must be requested and approved in advance — describe in detail. Structures must be necessary for commercial mining activity and will be temporary in nature, without permanent foundations. Recreational cabins are not authorized under

SUBMIT COMPLETED APPLICATIONS TO ONE OF THE OFFICES BELOW:

(Mailed Applications)

State Division of Mining & Water Management

State Division of Mining & Water Management 3700 Airport Way

3601 'C' Street, Suite 800 Anchorage, AK 99503-5935

Fairbanks, AK 99709-4699

(Hand Carry To:

3601 'C' Street, Suite 884 (Frontier Building)

Hand Carry To:

Same

Telephone: FAX:

(907) 269-8649

(907) 563-1853

Telephone: FAX: (907) 451-2790 (907) 451-2751

INCOMPLETE APPLICATIONS WILL BE RETURNED!!!

(DNR Form 00-001; Rev 10/96)

APMA INSTRUCTIONS AND CHECKLIST

For us to provide your mining permit before the mining season starts, we need your help. Please submit your APMA as early as possible! APMA's submitted after April 15, 1997 will be processed in as timely a manner as possible; however, staff field assistance visits will begin during May 1997, after which, the office time available for the review of

PREPARATION OF APPLICATION: State mining regulations require applications to be completed in ink or typewriter. All sections should be completed, unless it is not applicable to the operation, then indicate by "N/A". Sketches must include all components listed on the sketch checklist — again, indicate "N/A" if a component does not apply

ATTACHMENTS: Attachments to your application should be in 8 1/2" x 11" size. Oversize attachments, required to clarify complex operations, shall be provided by the applicant in sufficient copies to meet distribution requirements — check with a DNR Division of Mining & Water Management office.

CHECKLIST: Please review the following checklist and make certain all applicable items are included before submitting the application — INCOMPLETE APPLICATIONS WILL BE RETURNED.

	[] Is the applicable processing fee enclosed?
	[] Are all items on the application completed? Write "N/A"; "DOES NOT APPLY"; or draw a diagonal line through any
23	Are applicable maps listed below enclosed?
one inch	— ACCESS MAPS: Include the appropriate U.S. Geological Survey (USGS) topographic map or maps at a scale of h equals one mile (1:63,360). Identify entire access route to your claim block from a major road system, airstrip, or boat ap should be clearly identified with: 1) USGS identifier, i.e. Fairbanks A-3; and 2) all legal descriptions (townships and involving the route).
illustratin Identify ti	— CLAIMS LOCATION MAP: Include a USGS topographic map at a scale of one inch equals one mile (1:63,360), ng: location; claim name; claim number; camp location; airstrips; legal description; and appropriate USGS map identifier those claims with existing disturbance and those on which activity will take place this season.
I L	Completed, readable sketch and narrative of operation. Include all items listed on sketch checklist
[Reclamat	I NECISMAIION hade signed and details on the
property b] Notice of Operator Authorization form — if you are operating on State mineral locations and are not an owner of the
[] operations] Signed and dated 1996 Annual Reclamation Statement for Small Mines and/or Suction Dredge Operations (For
[]	Signed and dated Coastal Zone Management (CZM) Certification Statement, if applicable.
[]	Completed State Wide Bond Pool Application or State Wide Bond Pool Renewal Form, if applicable.
[]	Applicable bonding reclamation fees.
	INCOMPLETE APPLICATIONS

INCOMPLETE APPLICATIONS WILL BE RETURNED

STATE OF ALASKA 1997 ANNUAL PLACER MINING APPLICATION

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List equipment to be used (Type; Size; Purpose; and Number of Each): DESCRIPTION OF OPERATIONS	
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ACCESS OUTSIDE OF CLAIM BLOCK	***************************************
federal agency. Access across private property, including native corporation lands, mental healthtrust lands, and other private property described in the private property owner. It is the responsibility of the applicant to contact the appropriate property that property owner. It is the responsibility of the applicant to contact the appropriate property and required perits for access are obtained.	
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A completed access map must be submitted with your APMA. Copies of U.S.G.S. topographic maps at a scale of 1°=1 mile must clearly indicate the should also be indicated (Healy A-3, etc.). Paper size should be limited to 8½ x 11. Do not tape maps troopted. The quadrangle map name	
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access is to be constructed, indicate: Type: Length: Feet Width: Feet Depth: Right-of-Way (ROW) Permit is required from the Department of Natural Resources, Division of Land, to construct access on state land outside a class of Division of Land, in Anchorage (907) 269-8400; in Fairbanks (907) 463-885, including dropping the blade or bucket, and/or adding grantles to the construct access on state land outside a class of Land, in Anchorage (907) 269-8400; in Fairbanks (907) 463-885, including dropping the blade or bucket, and/or adding grantles to the construct access on state land outside a class of the construct access on the construct access of the construct access on the construct access of the construct access on	
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etermination as to whether or not this permit is required. dicate Type(s) of Access: All Season Road — A road intended to be used during all seasons of the year without causing long term damage to the road. Cross Country Trail — Travel is off an all season road with equipment/vehicles other than a standard 4-wheel drive pick-up truck, snowmobile, or 4-wheeler/6 wheeler All Terrain Vehicle (ATV), provided the vegetative mat is not killed or broken. Note, travel on a trail intended for winter use only its considered a cross country trail. The current performance guarantee for cross country travel on state lands is \$1,000.00 and must be received by occurred. Airstrip — Indicate length: Feet River ou are transporting equipment and/or fuel on a cross country trail, please complete the following: ist all equipment and vehicles being transported: No	s of

di na a	PLACER MINING METHOD (T
	Indicate Methods of Mining/Processing Used in Operation:
	□ Suction Dredge: Nozzie Size:inches Engine HP: □ Bucket Line Dredge: Bucket Size is:Cubic Feet
	□ Washing Plant: □ Slick Plate □ Shaker Screen □ Trommel □ Sluice Box: Length: Feet Width: Feet Channels:
	□ Hydraulic Glant: Nozzie SizeInches □ Jig Plant: Cell Size:
	ESTIMATED: Sluice Days This Season:; Cubic Yards of Material To Be Processed: Daily: Annually:
	OVERBURDEN (20
	Type: None Gravel, Average Depth: Feet Organic Material, Average Depth: Feet
	EXPLORATION TRENCHING (Indicate Locations On Sketch Sheet or Topographic Map) Estimated Number of Trenches To Be Cut:; Average Size: Length: Feet Width: Feet Depth: Feet
	EXPLORATION DRILLING (Indicate Locations On Sketch Sheet or Topographic Map) Number of Holes to Be Drilled:; Type of Drill Used:; Estimated Maximum Depth: Feet; Diameter of Holes: Inches How Will Drill Holes Be Plugged Upon Completion?
	Will Explosives Be Used? ☐ Yes ☐ No If "Yes", Indicate: Type: Amount:
	STRUCTURES/FACILITIES (24) (Placement and use of any surface structure must be requested in writing and
	(Include location on sketch sheet and topographic map)
	□ Request use of existing facilities: □ Frame/Log Structure □ Trailer □ Tent/Tent Frame □ Camp facilities not required □ Request authorization to construct or place: □ Frame/Log Structure □ Trailer □ Tent/Tent Frame
	FUEL (31)
	Volume Stored: Gallons
	Type of Storage Container: Tanks Larger Than 660 Gallons Tanks Less Than 660 Gallons
	□ Fuel Bladder □ 55 Gallon Drums
	□ Other (Specify):
	Are Fuel Containment Berms Around Storage Containers?:

Water use should be pla					
Will be considered a dien-	Innere to the	"P" 'Y VY VISIDIE SEEDAGE	Drough a dam or teilings as	ake, etc.), <u>if it is at all possible</u> . <u>Str</u> m. <u>Zero discharge</u> means no wate er. <u>Underground flow or seepage</u> le eration. If groundwater from your	in to reseased Dack Into a
force you to have a disch under no circumstance	narge from your settling p	conds, reasonable efforts munake-up water if you are h	it flows past your mining or ist be made to divert the wa	eration. If groundwater from your of ter around the operation to minimize	through a dam or berm, cut and surface run-off e your dischargeand
Do You Expect Your Ope	eration To Have A Disch	large? □ No □ Yes (If "Yes	", Estimate GPM:		
Stream By-Pass Or Diven	sion? Not required	□ Existing □ To be co	ne truck at		(26)
(Indicate on mine plan dia	gram): Length:			Stream By-Pass? Permanent	☐ Temporary
	7 77 W 1941 1	cie system) may require auti Vater Supply and Recycle/Semining operation.	AUTHORIZATIONS norization by either a Tempe ettling Pond System section	orary Water Use Permit or a Water s of this application will be used to	(27) Rights Permit or determine the quantity
Do you currently have a Wa	ater Rights Permit or Cer	rtificate? ☐ Yes ☐ No	f ves. please indicate ADL		
If no, please contact the Div your project. (State of Alasi State of Alaska, Division of	vision of Mining and Wat ka, Division of Mining an Mining and Water Mana	ter Management - Water Re	SOUrce Section to determine	e what type of water use authorizat Airport Way, Fairbanks, AK 9970s 800, Anchorage, Alaska 99503-5	ion you will require for (, (907) 451-2736 or
				- v-u, Alliuliurage, Alaska 99503-5	935; (907) 269-8641.)
into the ground. Federal Re	guiations prohibit the	t be taken from the stream a addition of make-up water	VATER SUPPLY nd added to your settling po while you are having an	onds to replace water lost due to ev discharge from your settling p	(28) aporation and seepage onds.
Source of Make-up Water:		Tom Cut ☐ High Water Ev	ents From Rain Seep	age Infiltration From Stream	
Source of Make-up Water:	Stream Other:	□ Pump With Intake Siz	ents From Rain	age Infiltration From Stream ☐ Diversion Ditch From Stream	With Headgate
Source of Make-up Water:	Stream Other: Seepage Infiltration Other: Other:	☐ Pump With Intake Siz	ents From Rain	☐ Diversion Ditch From Stream	With Headgate ·
Method of Taking Water: DEStimated Average Amour	Stream Other: Seepage Infiltration Other: Other: Make-up Water:	□ Pump With Intake Siz Gallons Per	ents From Rain Seep	☐ Diversion Ditch From Stream	
Method of Taking Water: DEStimated Average Amound No Make-up Water require Purpose of Dam: Destimated Makeup	Stream Other: Seepage Infiltration Other: nt Of Make-up Water: ed.	□ Pump With Intake Siz Gallons Per D CAn artificial barrier used	ents From Rain Seepone Of Inches Day, or Gal AM on impound or divert water	☐ Diversion Ditch From Stream lons Per Week.	(29)
Method of Taking Water: DEStimated Average Amound No Make-up Water require Purpose of Dam: Destimated Makeup	Stream Other: Seepage Infiltration Other: nt Of Make-up Water: ed.	□ Pump With Intake Siz Gallons Per D CAn artificial barrier used	ents From Rain Seepone Of Inches Day, or Gal AM on impound or divert water	☐ Diversion Ditch From Stream	(29)
Method of Taking Water: DEStimated Average Amound No Make-up Water require Purpose of Dam: Destimated Makeup	Stream Other: Seepage Infiltration Other: nt Of Make-up Water: ed.	□ Pump With Intake Siz Gallons Per D CAn artificial barrier used	ents From Rain Seepone Of Inches Day, or Gal AM on impound or divert water	☐ Diversion Ditch From Stream lons Per Week.	(29)
Method of Taking Water: DEStimated Average Amound No Make-up Water require Purpose of Dam: Destimated Makeup	Stream Other: Seepage Infiltration Other: Int Of Make-up Water: ed. Ip Water Pond To Be Constructed	□ Pump With Intake Siz Gallons Per D CAn artificial barrier used	ents From Rain Seepon S	☐ Diversion Ditch From Stream lons Per Week.	(29)
Source of Make-up Water: Method of Taking Water: Estimated Average Amour No Make-up Water require Purpose of Dam: Makeup Dam Information: Existing	Stream Other: Seepage Infiltration Other: Int Of Make-up Water: ad To Be Constructed	□ Pump With Intake Siz Gallons Per Gallons Per D (An artificial barrier used to Settling/Recycle Ponds do Length: Ft Ft Ft Ft Ft Ft Ft Ft	ents From Rain Seepons	□ Diversion Ditch From Stream lons Per Week. ar) Dam Required At Crest: Ft Width At Ba	(29) se:Ft
Method of Taking Water: Method of Taking Water: Estimated Average Amour No Make-up Water require Purpose of Dam: Makeu Dam Information: Existing	Stream Other: Seepage Infiltration Other: Int Of Make-up Water: I	☐ Pump With Intake Siz Gallons Per Gallons Per (An artificial barrier used in Description of Length: Ft in RECYCLE/SETTLIF Is Recycle Used: ☐ Yes	ents From Rain Seepons	□ Diversion Ditch From Stream lons Per Week. pr) Dam Required At Crest: Ft Width At Ba	(29) se:Ft
Method of Taking Water: Method of Taking Water: Estimated Average Amour No Make-up Water require Purpose of Dam: Makeu Dam Information: Existing	Stream Other: Seepage Infiltration Other: Int Of Make-up Water: I	☐ Pump With Intake Siz Gallons Per Gallons Per (An artificial barrier used in Description of Length: Ft in RECYCLE/SETTLIF Is Recycle Used: ☐ Yes	ents From Rain Seepons	□ Diversion Ditch From Stream lons Per Week. ar) Dam Required At Crest: Ft Width At Ba	(29) se:Ft

PLEASE MAKE ONE FINAL REVIEW OF THE "CHECKLIST" TO MAKE CERTAIN THAT <u>EVERY</u> SECTION HAS BEEN COMPLETED ON THIS APMA. IF A SECTION DOES NOT APPLY TO YOUR OPERATION WRITE "N/A", "DOES NOT APPLY" OR DRAW A DIAGONAL LINE THROUGH THE SECTION.

INCOMPLETE APPLICATIONS WILL BE RETURNED!!!!

INSTRUCTIONS FOR COMPLETING SKETCH SHEET AND DESCRIPTION OF OPERATION

SUBMIT ONLY INK DRAWINGS OR "GOOD QUALITY" XEROX COPIES - PENCIL DRAWINGS ARE NOT ACCEPTABLE AND WILL CAUSE THE ENTIRE APMA TO BE RETURNED.

This check list is provided to assist you in the completion of your Plan of Operations sketch. Sketch your complete mining and reclamation plans in detail; and <u>include written descriptions</u> of your planned operation, as necessary, activities for the mining season.

"HOLUDE EACH C	OF THE FOLLOWING ITEMS IN YOUR SKETCH IF AN ITEM DOES NOT APPLY, INDICATE BY "N/A"
	*** Indicate claim name, ADI /RIM Number Land
planned cuts; and an	eas currently stripped vs. areas you are planning to
U OVERBURDEN S	TOCKPILES - indicate material type location
including location (wi	here?, when? and how?)
this APMA Form; indic flow through your pon	3 — indicate location and dimensions (lengths, widths and depths) (number each pond as in Section (29) of cate your recycle system, including pump and line from pond to plant; also, indicate the direction of water. It is a system and the location and estimated and line from pond to plant; also, indicate the direction of water.
☐ MAKE-UP WATER or weekly.	- indicate location of pump, line, or headgate and ditch; estimate the average make-up water added daily
□ STREAM indicate	location, name of drainage, direction of flow, and width of original channel.
STREAM BY-PASS	ES – indicate location dimensions (targetter and width of original channel.
AREAS TO BE REC	ES – indicate location, dimensions (lengths, widths and depths), and direction of water flow. LAIMED – indicate location and dimensions (lengths and widths).
PREVIOUSLY REC	LAIMED AREAS – indicate locations.
FUEL STORAGE AF	REA – indicate location with respect to stream and active mining area – include distance from flowing
CAMP FACILITIES -	- indicate location and describe the type and purpose of each structure (Federal Operators should e length and width of the camp area).
SANITARY AND SOL	LID WASTE — indicate location and method of disposal (i.e., outhouse; trash collection; etc.).
NORTH ARROW - ir	ndicate the direction of north with respect to your operation.
SIZE OF VALLEY - i	ndicate, with dotted lines, the approximate width of the valley floor.
ACCESS – indicate ty ould include length and dth and distribution of	/pe and location of existing access to the claims and specifically to the mining area (Federal operators and width of access); indicate type and location of proposed construction of new access including length,
	re final review of the sketch sheet checklist to make certain that you included everything.

INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APMA TO BE RETURNED.

*** **EXAMPLE** ***

MINE PLAN NARRATIVE

MINING:

The mining operation is designed to economically recover gold and complete acceptable reclamation. The mine layout is directly related to reclamation. Mining will progress in the following steps — see sketch:

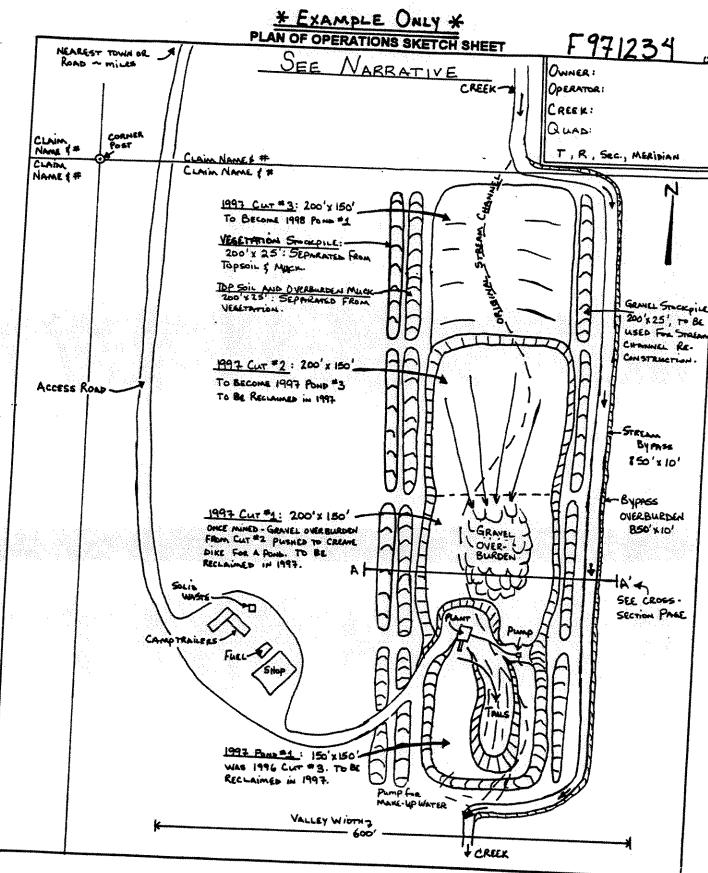
- 1) A stream by-pass, $800' \times 10'$, will be constructed on the left limit of the operation. The by-pass will be constructed to accommodate high water events including break-up without bank erosion.
- 2) Vegetation, including trees, brush, tundra, etc., will be separated from topsoil and overburden gravel and stockpiled in such a manner as to avoid erosion. Stockpiles will be 200' x 25' x 15', located on the right limit of each cut.
- 3) Topsoil will be separated and stockpiled next to the vegetation stockpiles. A space will be maintained between the stockpiles so that topsoil can be respread before the vegetation. Each topsoil stockpile will be 200' x 25' x 15', located on the right limit of each mining cut.
- 4) Gravel overburden will be used to reconstruct the stream channel and cap ponds. Gravel will be stored in the following manner:
- a) Gravel from each cut will be pushed into the previously mined cut forming a dike for the next recycle pond. The dike will be constructed in such a manner that the largest portion of the pond will be immediately below the processing plant on the right limit. This places the pond sediment away from the reclaimed stream channel. The return portion of the pond will be narrow, one dozer blade width, forcing the fines to settle in the large pond area.
- b) A stockpile of gravel, 200' x 25', will be placed on the left limit of the mine cuts and used to reconstruct the stream channel in the left limit of the ponds.
 - 5) Coarse tailings will be pushed onto the pond dike and used to cap ponds.

RECLAMATION:

Reclamation will progress in the following steps:

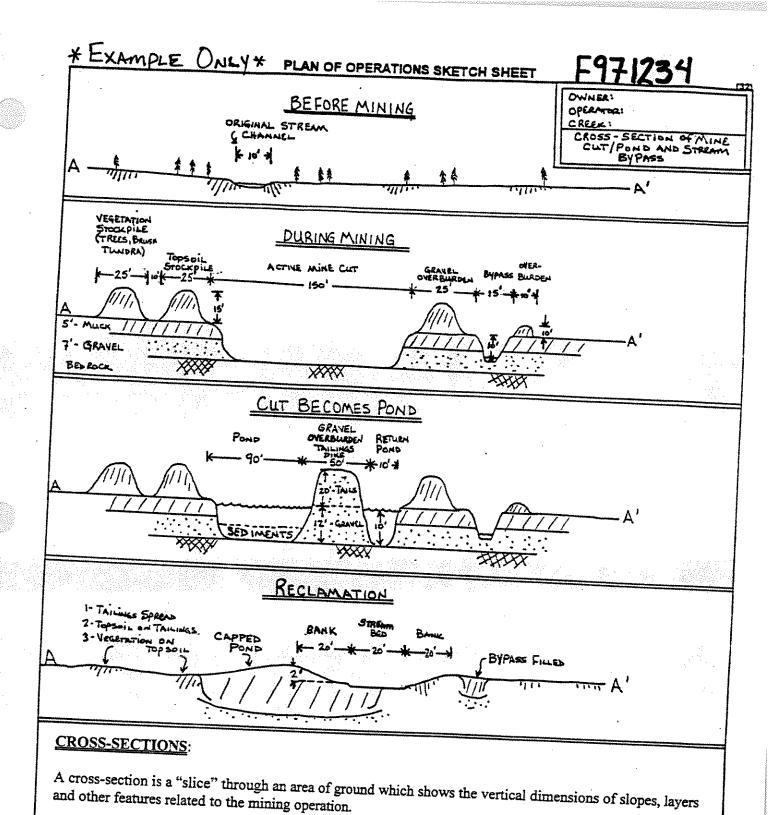
- 1) Ponds will be drained slowly with care taken not to lose sediment.
- 2) The stream will be reestablished in the left limit of the ponds. All sediment will be bailed out and a stable stream channel will be established using tailings stockpiled in the center and left limit of the ponds. The flood plain will be wide enough to prevent erosion during high water events. For this stream, the reconstructed flood plain will consist of a stream bed 20' wide with side banks 20' wide. The banks will have a 20:2 foot slope. The by-pass will be filled and vegetation respread.
- 3) The remaining tailing stockpiles will be used to cap the large portion of the pond and/or stabilize any remaining pond areas from erosion. To minimize erosion, final shaping will be done across the slope rather than up and down.
- 4) Banks of ponds will be flattened out to allow natural revegetation and avoid erosional degradation. The banks will have a slope of 20:1 feet.
 - 5) Topsoil will then be respread over the tailings.
- 6) Finally, vegetation will be respread over topsoil. The vegetation will trap seeds and moisture as well as reduce erosion.

*** **EXAMPLE** ***



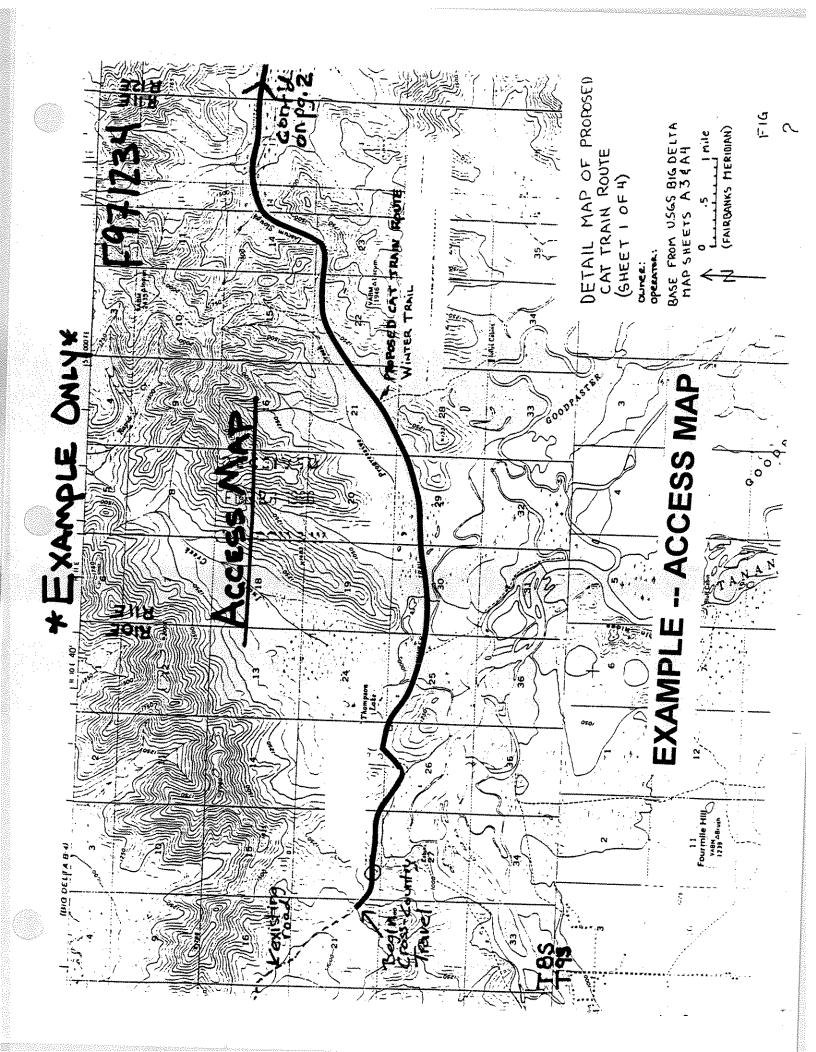
(Attach Additional Sheets, Along With Detailed Explanations As Necessary)
PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO MAKE CERTAIN THAT YOU INCLUDED EVERYTHING.
INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APMA TO BE RETURNED.

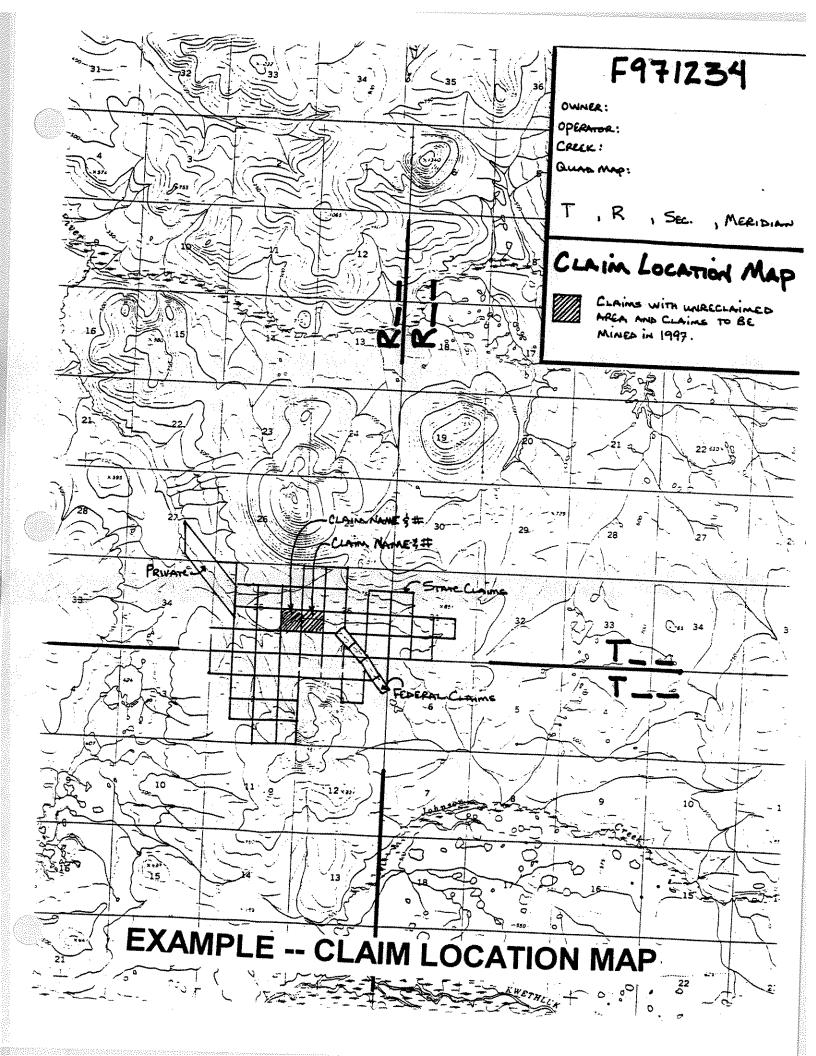
* Example ONLY *



To draw a cross-section, first define a line across an area of the mining operation where typical mining activity will occur. The line should cross the entire width of the operation. Next, draw the cross-sectional view along the line. Finally, label all components, include dimensions.

(Attach Additional Sheets, Along With Detailed Explanations As Necessary)
PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO MAKE CERTAIN THAT YOU INCLUDED EVERYTHING.
INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APMA TO BE RETURNED.





PLAN OF OPERATIONS SKETCH SHEET	/20
	(32
 (Attach Additional Sheets, Along With Detailed Explanations As Noores	

(Attach Additional Sheets, Along With Detailed Explanations As Necessary)
PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO INSURE EVERYTHING IS INCLUDED
INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APMA TO BE RETURNED.

RECLAMATION

Check One:

☐ RECLAMATION PLAN (Mined Area 5 Acres Or Greater)

LETTER OF INTENT TO DO RECLAMATION

(Mined Area Less Than 5 Acres)

In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of mining operations with a mined area (all portions of a mining operation excluding camp and roads) of 5 acres or greater. Completion of this application will meet the requirements intend to use the reclamation methods presented below, please provide additional information concerning your plans for reclamation under

ature of Applicant	Relationship to Claim(s)	
cordance with Alaska Statute 27.19, bonding is required for led for \$750.00 per acre, unless the miner can demonstrate to wide bonding pool has been established and may be joined ional bonding requirements. Use bond form to calculate area.	The second secon	f five acres or greater. This area must be red reclamation for less than that amount. A m. Federal land managers may have
Federal land managers may require reclamation measures d	ifferent to those identified above.	
Alternative reclamation measures may be approved if the reclamate correspondence. Submit a sketch and describe additional sures must comply with Alaska Statute 27,19.	, p	t applicable to your site. Please explain in anduct at your mining operation. Reclamation
Alternative reclamation management		
ORTANT:		
Other:		
All buildings and structures constructed, used or improved, appletion of mining. The campsite will be cleaned up and left	on State land, will be removed, dismantled, free of debris.	or otherwise properly disposed of at the
Exploration trenches will be backfilled. Brush piles, stumps prote natural revegetation.	s, topsoil, and other organics will be spread	on the backfilled surface to inhibit erosion and
The flood plain will be established wide enough to accomm Exploration trenches will be backfilled. Brush with	odate seasonal high water flood events and	prevent undue erosional degradation.
Stream channel diversions will be relocated to a stable local the flood plain will be established undo consult to	ation in the valley flood plain.	
Stream channel diversions will be missed		g season will be protected from erosion or the
Settling ponds located within the active flood plain and necessity removed.	essary for continued use during the next m	ning season will be made
rowth such that the area can reasonably be expected to reve	ettling pond silts, will be spread over the con getate within five years. Stockniled vegetati	toured mine workings to promote natural plant
	ounding area using tailings strippings and	Physical resistant and the
ise. This material will be protected from erosion and from co	ontamination by acidic or toxic materials and	be individually separated and stockpiled for future will not be buried by tailings.
1. Topsoil vegetation and ourstweeter	불러 집에 가는 것이 되었다면 하는 것이 없다.	
The following reclamation measures shall be used. (The an explanation must be given as to why these measures		se that do not apply may be crossed out; but
Total volume of material to be disturbed in 1997:	cubic yards. (Including strippings and o	werburden to be removed)
☐ Reclamation will be conducted at the end of the mining so	eason.	
Reclamation will be conducted concurrently with mining.		
acres	: and	व्याचा व्याचा स्थात्त्व.
Of this acreage:acres are State land Total acreage to be reclaimed in 1997.	acres are Private land.	res are Federal land
Total acreage (currently disturbed plus new acres):	acres.	
		and the state states.
	s should match: "Total Unreclaimed Acres" orm. (Disturbed ground includes stripped ar any other areas that have been disturbed sin preclaimed.) — Federal operators include are	on your 1996 Annual Reclamation Statement for eas; mining cuts; overburden and tailing stockpi ce October 1991 (State mining claims or Private a of camp and roots

1996 ANNUAL RECLAMATION STATEMENT for SMALL MINES

1	
1996 APMA #	
Complete and return this states bottom box, sign and return for	ment by December 31, 1996. If you did not operate, fill in name, check
In accordance with AS 27.19 (R	Reclamation Act):
l,	
r dueral operators should incli	_ acres. (Includes stripped areas, mining cuts, overburden and tailing temporary stream diversions, stream bypasses, and settling ponds). ude area of camp and access roads.
Volume of material mined in 19 material).	996: cubic yards (includes strippings and processed
Total area reclaimed in 1996:	
	Company of the Control of the Contro
For the areas reclaimed the follows	ing reclamation measures were used (check only measures that were graphs or videotapes of the completed reclamation work:
[] Spread and contoured tailings	eciamation work:
[] Spread topsoil, vegetation, over	rburden muck or fines on the surface of contoured tailings
[] Reestablished flood plain with s	tream channel in stable position
[] Backfilled and reclaimed tempor	ary stream diversions
[] Camp removed, cleaned up and	
Other reclamation measures taken	
] I did not operate in 1996 and the	refore did not conduct reclamation.
Signed	Date
	DOM&W Mgmt '96 Reclamation Statement
	Small Mines (Rev10/96)

1996 ANNUAL RECLAMATION STATEMENT for SUCTION DREDGE OPERATIONS

1996 APMA #	
Complete and return this statement bottom box, sign and return form.	nt by December 31, 1996. If you did not operate, fill in name, check
In accordance with AS 27.19 (Recl	amation Act):
 	
mining operation. (Submission of	this statement does not constitute reclamation approval.)
Total acreage mined 1996:	acres.
Volume of material mined in 1996:	
Total area reclaimed in 1996:	cubic yards (includes strippings and processed material)acres.
	reclamation measures were used (check only measures that were
[] Leveled and contoured gravel bar	
[] Camp removed, cleaned up and le	eft free of debris
	id not generate tailing piles that needed to be reclaimed
Other reclamation measures taken:	o , and moded to be reciaimed
dies taken.	
[] [did not only	
[] I did not operate in 1996 and theref	fore did not conduct reclamation.
Signed	
Olgi lou	Date

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES STATE WIDE BOND POOL FORM

APMA #	STATE WIDE BOND POOL FORM	
71 N/7 #	Princeton	
Name		
Mailing Address		
The state of the s		
City State	Zip Code	
submits unto the State of Alaska	Department of the same	
, mora,	Department of Natural Resources, the sum of (\$)	
neet the bonding requirements of	DOLLARS for payment int Alaska Statute 27.19 for mining activity located on claim numbers:	o the State Wide Bonding Poc
	control of mining activity located on claim numbers:	
hese claims are located within leg	al description (Township, Range, Section, Meridian):	
his bond amount was calculated a	s follows:	
sturbs a previously mined area, the	of the mining operation, including camp site, access roads, unrect acres. Acreage should be rounded to the next whole acre. s after January 1, 1981, that have not been approved as reclaimed at area must also be included in the acreage to be bonded.	his acreage must include all by BLM. If a mining operation
sturbs a previously mined area, the or State and Patented Claims: To ould be rounded to the next whole ning cuts, overburden and tailing s is acreage must include all areas of ADNR. If a mining operation distr	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation stockpiles and disposal areas, temporary stream disposals.	by BLM. If a mining operation is is acres (acreage ; including stripped areas,
sturbs a previously mined area, the restate and Patented Claims: To build be rounded to the next whole hing cuts, overburden and tailing is acreage must include all	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads a acre). This includes all areas that are part of the mining operation stockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have not be a previously mined area, that area must also be included in the	I by BLM. If a mining operation s is acres (acreage ; including stripped areas, bypasses, and settling ponds. not been approved as reclaime e acreage to be bonded.
sturbs a previously mined area, the or State and Patented Claims: To build be rounded to the next whole ning cuts, overburden and tailing is acreage must include all areas of ADNR. If a mining operation distributed by the control of the control o	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation attockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have not be a previously mined area, that area must also be included in the	his acreage must include all by BLM. If a mining operation is a cres (acreage acres (acreage acres, including stripped areas, bypasses, and settling ponds, not been approved as reclaime acreage to be bonded.
sturbs a previously mined area, the or State and Patented Claims: To ould be rounded to the next whole ning cuts, overburden and tailing s is acreage must include all areas of ADNR. If a mining operation distr	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation attockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have not be a previously mined area, that area must also be included in the	I by BLM. If a mining operation s is acres (acreage ; including stripped areas, bypasses, and settling ponds, not been approved as reclaimed acreage to be bonded. \$
sturbs a previously mined area, the or State and Patented Claims: To ould be rounded to the next whole ning cuts, overburden and tailing is acreage must include all areas or ADNR. If a mining operation disturbundable bond deposit: fundable bond pool annual feet is acreage will be the same as about a state of the same as about the same as a same a	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation stockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have notes a previously mined area, that area must also be included in the acres X \$112.50 = 100 acres X \$ 37.50 = 1	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaime acreage to be bonded. \$ \$
sturbs a previously mined area, the or State and Patented Claims: The ould be rounded to the next whole hing cuts, overburden and tailing is acreage must include all areas of ADNR. If a mining operation distributed by the same as about a creage will be the same as about the check payable to ALASKA DE crations. Division of Mining area.	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation stockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have number a previously mined area, that area must also be included in the acres X \$112.50 = acres X \$ 37.50 = acres X	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaimed acreage to be bonded. \$ \$ \$
sturbs a previously mined area, the or State and Patented Claims: The ould be rounded to the next whole hing cuts, overburden and tailing is acreage must include all areas of ADNR. If a mining operation distributed by the same as about a creage will be the same as about the check payable to ALASKA DE crations. Division of Mining area.	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation stockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have numbs a previously mined area, that area must also be included in the acres X \$112.50 =	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaime acreage to be bonded. \$ \$ \$
sturbs a previously mined area, the or State and Patented Claims: The ould be rounded to the next whole hing cuts, overburden and tailing is acreage must include all areas of ADNR. If a mining operation distributed by the same as about a creage will be the same as about the check payable to ALASKA DE crations. Division of Mining area.	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads a acre). This includes all areas that are part of the mining operation stockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have numbs a previously mined area, that area must also be included in the acres X \$112.50 = acres X \$ 37.50 =: Total \$ PARTMENT OF REVENUE. Sign and return this form, with particular Management, Department of Natural Resources: 3601 of Airport Way, Fairbanks, AK 99709-4699.	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaime acreage to be bonded. \$ \$ \$
sturbs a previously mined area, the restand Patented Claims: To build be rounded to the next whole hing cuts, overburden and tailing as acreage must include all areas of ADNR. If a mining operation distributed by the same as about the same as a same	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation attockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have nurbs a previously mined area, that area must also be included in the acres X \$112.50 = acres X \$ 37.50 = acres X	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaime acreage to be bonded. \$ \$ \$
sturbs a previously mined area, the or State and Patented Claims: Tould be rounded to the next whole ning cuts, overburden and tailing is acreage must include all areas of ADNR. If a mining operation distributed by the same as about the same as a	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation attockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have nurbs a previously mined area, that area must also be included in the acres X \$112.50 = acres X \$ 37.50 = acres X	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaimed acreage to be bonded. \$ \$
sturbs a previously mined area, the restand Patented Claims: To build be rounded to the next whole hing cuts, overburden and tailing as acreage must include all areas of ADNR. If a mining operation distributed by the same as about the same as a same	at area must also be included in the acreage to be bonded. The active mining disturbance, not including camp and access roads acre). This includes all areas that are part of the mining operation attockpiles and disposal areas, temporary stream diversions, stream disturbed by a mining operation after October 15, 1991, that have nurbs a previously mined area, that area must also be included in the acres X \$112.50 = acres X \$ 37.50 = acres X	I by BLM. If a mining operation is is acres (acreage ; including stripped areas, bypasses, and settling ponds. to been approved as reclaimed acreage to be bonded. \$ \$

STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES STATE WIDE BOND POOL RENEWAL FORM FOR 1997 OPERATIONS

Name		·	·
Mailing Address City State			٠
	Zip Code		
submits unto the State of Alaska, Department o on claim's	i Natural Resources, a renew	al of reclamation bonding for r	nining ac
on claim'sin Sec(s)			loca
in Sec(s),T,T,T	,R	,M.	
amount owed wa	as calculated as follows:		
1. Number of acres bonded 1996:			
2. Number of acres mined or district and in the		acres	
Number of acres mined or disturbed in 199 acreage from previous years — October 1991 private lands, and 1981 to present for foderal.	6, including unreclaimed	acres	
private lands, and 1981 to present for federal claims include area of camp and assessment	claims. On federal	$x^{(2)} = x^{(2)} + x^{(2)} = x^{(2)}$	
of our band access roads		24 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	
Bonding credits carried forward from 1996	la 1997:		
Number of acres bonded in 1996 but not mi (1 minus 2 above)	mod on distinct	20100 v f 442 ro	
A Millio E above)	•	acres x \$ 112.50 = \$	***************************************
4. Number of acres reclaimed in 1996 and app	proved by RLM/DND		
(must submit Bond Release Application for S	State claims,	acres x \$ 112.50 = \$	
when field inspection was not completed for in PHOTO/VIDEO DOCUMENTATION REQUIRED.		ucres x \$ 12.50 = \$	
	KED.)		
5. Dollar total of lines 3 + 4:		e	
onding obligations for 1997:	•	<u> </u>	
3. Number of acres mined but not bonded in 19	96: % Sayot on Layder Sayote	acres x \$ 150.00 = \$	
Total number of <u>all</u> unreclaimed acres:			
(IIIIe / Should match "total acrosses	listurbed"	acres x \$ 37.50 = \$	
on your 1997 Reclamation Plan. (2 minus 4 at	Pove)		
New acres to be mined in 1997:			
Dollar total of lines 6 + 7 + 8:		acres x \$ 150.00 = \$	
		\$	
. Total acreage bonded in 1997 (7 + 8):		▼	
ne 5 is larger than line 9 enter the difference he		acres	
		. This amount will be refund	led
ne 9 is larger than line 5, the difference is due	DNR \$		
ASKA DEPARTMENT OF REVENUE.		Make check pay	rable to:
ned - Miner	Date		
	Date		
NR - Division of Mining & Water Management	Date		
	more than to the second		
- Bureau of Land Management	Date		

AMENDED ACREAGE

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES STATE WIDE BOND POOL FORM

APMA#							
	٠	• .					
Name							
Mailing Address				÷			
City							
Taran Baran Ba	tate	Zip Code					
submits unto the State of Alas	ska, Department of	Natural Resources, th	IR SUM of /S				
	A STATE OF THE STA	no.	a man a	and the second section	.		
requirements of Alaska Statut	e 27.19 for mining a	DOL	n numbers	o me state v	Vide Bonding P	ool to meet the t	ond
There is							
These claims are located within	n legal description (Township, Range, Se	ection, Meridian):				
This bond amount was calcula	ted as follows:						
For Federal Claims: The total mining next season is amining operations after Januar	area of the mining	operation, including o	amn eta casas				
area, that area must also be inc	luded in the acreag	e to be bonded.	s reclaimed by BLM.	If a mining o	peration disturb	reas disturbed b is a previously m	y ined
Of State and Description							
			Attalian as a second of				
nd tailing stockpiles and dispo). This includes all a	areas that are part of t	luding camp and acci he mining operation:	ess roads is	acres (A	creage should b)e
ounded to the next whole acre nd tailing stockpiles and dispo- isturbed by a mining operation). This includes all a sal areas, temporar after October 15, 1	areas that are part of the stream diversions, stream diversions, stream diversions, stream diversions are the stream diversions.	luding camp and acc he mining operation; tream bypasses, and	ess roads is including stri settling pond	acres (A pped areas, mir s. This acreage	Acreage should be ning cuts, overbuse must include al	e rder
isturbed by a mining operation reviously mined area, that area). This includes all a sal areas, temporary after October 15, 1 must also be includ	areas that are part of the stream diversions, singless,	luding camp and acc the mining operation; tream bypasses, and en approved as recla be bonded.	ess roads is including stri settling pond imed by ADN	acres (Apped areas, mir s. This acreage IR. If a mining c	Acreage should be ning cuts, overbust must include all operation disturb	e rder l are s a
nd tailing stockpiles and dispo- isturbed by a mining operation reviously mined area, that area riginal acreage bonded:). This includes all a sal areas, temporary after October 15, 1 must also be include	areas that are part of the stream diversions, single 991, that have not be ded in the acreage to	luding camp and acci the mining operation; tream bypasses, and en approved as reclai be bonded.	ess roads is including stri settling pond imed by ADN	acres (Apped areas, mir s. This acreage IR. If a mining c	Acreage should be ning cuts, overbut must include all operation disturb	e irder l are s a
isturbed by a mining operation reviously mined area, that area). This includes all a sal areas, temporan after October 15, 1 must also be included	areas that are part of the stream diversions, single 1991, that have not be ded in the acreage to	luding camp and acci he mining operation; tream bypasses, and en approved as reclai be bonded.	ess roads is including stri settling pond imed by ADN	acres (#pped areas, mir s. This acreage IR. If a mining c	Acreage should be hing cuts, overbut must include all operation disturb	e rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded:). This includes all a sal areas, temporary after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to	tream bypasses, and en approved as recial be bonded.	settling pond med by ADN	s. This acreage R. If a mining o	ing cuts, overbu ∋ must include al ⊃peration disturb	e rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded:). This includes all a sal areas, temporan after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to	tream bypasses, and en approved as recial be bonded.	settling pond med by ADN	s. This acreage R. If a mining o	ing cuts, overbu ∋ must include al ⊃peration disturb	e irderi I are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded:). This includes all a sal areas, temporary after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to Ref	tream bypasses, and en approved as recial be bonded.	settling pond imed by ADN t (new):	s. This acreage IR. If a mining c	ing cuts, overbue must include al operation disturb	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded:	This includes all a sal areas, temporary after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to Ref	tream bypasses, and en approved as recial be bonded.	settling pond imed by ADN t (new):	s. This acreage IR. If a mining c	ing cuts, overbue must include al operation disturb	e irder I are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres:	after October 15, 1 must also be include	y stream diversions, si 991, that have not be ded in the acreage to Ref Nonrefundable	tream bypasses, and en approved as recial be bonded. undable bond deposi be bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all peration disturb	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres: ke check payable to ALASKA	after October 15, 1 must also be include	y stream diversions, si 991, that have not be ded in the acreage to Ref Nonrefundable	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres: ke check payable to ALASKA	after October 15, 1 must also be include	y stream diversions, si 991, that have not be ded in the acreage to Ref Nonrefundable	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres:	after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to Ref Nonrefundable	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres: ke check payable to ALASKA	after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to Ref Nonrefundable	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres: ke check payable to ALASKA	after October 15, 1 must also be include	Ref Nonrefundable F REVENUE Sign a nent, Department of	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres: ke check payable to ALASKA erations, Division of Mining io3-5935 or 3700 Airport Wa	after October 15, 1 must also be include	y stream diversions, si 991, that have not be led in the acreage to Ref Nonrefundable	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: and total of bonded acres: ke check payable to ALASKA erations, Division of Mining 103-5935 or 3700 Airport Waned - Miner	after October 15, 1 must also be included DEPARTMENT O. & Water Manager y, Fairbanks, AK s	Ref Nonrefundable F REVENUE. Sign anent, Department of 19709-4699.	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: ew acreage bonded: and total of bonded acres: ke check payable to ALASKA erations, Division of Mining io3-5935 or 3700 Airport Wa	after October 15, 1 must also be included DEPARTMENT O. & Water Manager y, Fairbanks, AK s	Ref Nonrefundable F REVENUE Sign a nent, Department of	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a
isturbed by a mining operation reviously mined area, that area riginal acreage bonded: and total of bonded acres: ke check payable to ALASKA erations, Division of Mining 103-5935 or 3700 Airport Waned - Miner	after October 15, 1 must also be included DEPARTMENT O. & Water Manager y, Fairbanks, AK s	Ref Nonrefundable F REVENUE. Sign anent, Department of 19709-4699.	tream bypasses, and en approved as recial be bonded. undable bond deposi e bond pool annual fe	settling pond med by ADN t (new): e (new):	s. This acreage IR. If a mining c acres X \$11	ing cuts, overbue must include all operation disturb. 12.50 = \$	rder l are s a

DOM&W MGT Bond Pool Amended Acreage Form (10/96)

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING & WATER MANAGEMENT STATEWIDE BOND POOL TRANSFER OF RESPONSIBILITY FOR BONDING AND RECLAMATION

1 The many		TPANCEED TO A	
required by either the own have agree	to a transfer of all responsibility	TRANSFER TO APMA #:	
Government, through the jurisdiction the above listed Annual Placer Minir	a (in the case of mining activities of the U.S. Bureau of Land Mar	TRANSFER TO APMA #: / and liability for any and all outstanding rec performed on State land and/or State mini nagement (BLM), and incorporating the pen s).	lamation work and bonding that may t ng claims), or the United States (Fede
MINING CLAIMS INVOL	S - PPICERIOT (APMA) number(s) Trotaling the per	mitted mining activities referenced un
CLAIM NAME	VED IN TRANSFER OF RESPI	ONSIBILITY AND LIABILITY: (attach sept	State shoot for a day
— UNIM NAME	ADUBLM NUMBERS	CLAIM NAME	
		- I I I I I I I I I I I I I I I I I I I	ADL/BLM NUMBERS
Name of present handhalds			
wortenoider respo	nsible for bonding and reclar	nation on the above listed mining claims	
Name or Doing Business As (DBA)			
Current Mailing Address (Street or P.O.	Boy		그렇게 그렇다. 그런 함께
City, State, Zip Code			
			The state of the s
ame of person and/or company acr	entine section	sibility and liability for bonding and rec	
ame or Doing Business As (DBA)			
arne or Doing Business As (DBA) urrent Mailing Address (Street or P.O.			
ame or Doing Business As (DBA)			
arne or Doing Business As (DBA) urrent Mailing Address (Street or P.O. ity, State, Zip Code	Box)		
arne or Doing Business As (DBA) urrent Mailing Address (Street or P.O. ty, State, Zip Code	Box)		
arne or Doing Business As (DBA) urrent Mailing Address (Street or P.O. ty, State, Zip Code	Box) ES AGREE ALL FUTURE REF	FUNDS OF BOND POOL DEPOSITS, IF A	NY, ARE TO BE ISSUED TO:
arne or Doing Business As (DBA) urrent Mailing Address (Street or P.O. ity, State, Zip Code	Box) ES AGREE ALL FUTURE REF	FUNDS OF BOND POOL DEPOSITS, IF A	INY, ARE TO BE ISSUED TO:
arne or Doing Business As (DBA) urrent Mailing Address (Street or P.O. ity, State, Zip Code	Box) ES AGREE ALL FUTURE REF		INY, ARE TO BE ISSUED TO: TED AND APPROVED.
ame or Doing Business As (DBA) urrent Mailing Address (Street or P.O. by, State, Zip Code SIGNATURE HEREON, BOTH PARTI	Box) ES AGREE ALL FUTURE REF	FUNDS OF BOND POOL DEPOSITS, IF A	NY, ARE TO BE ISSUED TO: TED AND APPROVED.
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Bonding/Reclamation Transfer (Rev 10/96)

NOTICE OF OPERATOR AUTHORIZATION - STATE MINERAL LOCATIONS

All operators or lease holders submitting APMAs for operations on State mineral locations must submit a "Notice of Authorization" from the owner of record. This notice of authorization must name the operator and leaseholder (if different), the claims(s) by Name and ADL number(s), and the time frame (beginning and ending dates) for which the authorization remains in force. The Division of Mining & Water Management will not issue any mining permits until we receive this Notice of Authorization. Please include it with your APMA.

OPERATOR AUTHORIZATION

	ADL Number	<u>Claim Name</u>	ADL N	lumber <u>C</u>	laim Name	ADL Number
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(Attach sheet with	additional claims.)		***************************************			
have leased these	claims to					
operate on these	claims to/_/	_to/_/	or h	lave authorized		
Owner's Signature			late			皇 (1) 基 色 (2)
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	APMA NO.:
COASTAL Z	ONE MANAGEMENT (CZM) CERTIFICATION STATEMENT
If your proposed project is less to sign the certification sta	ocated within Alaskan Coastal Zone Management (ACZM) boundaries, it will be necessary for your terment below, answer the questions concerning current permits, and include this sheet with you make the property of Covernments of the Covernments of the Covernments.
Section 307(c)3(A) of the Co	astal Zone Management Act of 1972, as amended by 16 USC 1456c)(3), requires a permit applicant ries affecting land or water uses in Alaska's coastal areas to provide certification the activities will f the Alaska Coastal Management Program (ACMP).
If you are located in the coasts	l zone, the Division of Governmental Coordination (DGC) will coordinate the State's annual review vill begin the State's review upon receipt of your APMA from the Division of Mining & Water
If you need a Corps of Enginee The process can take several n is issued.	ers (COE) Wetlands Permit, we strongly recommend you apply for it at your earliest convenience. nonths and your coastal zone consistency determination may need to be amended if a COE permit
review. If appropriate, indi	y found consistent and has not changed, you should not have to go through a new consistency cate no significant change in your operation by checking one of the house the house the consistency
[] My operation is a continu	nation of the same project as last year with no changes made.
[] My operation is a continu	nation of the same project as last year with no changes made
[] My operation is a continual I do not believe are significant I certify that, to the best of n	cation of the same project as last year with no changes made. tion of the same project as last year although I intend to make the following specific changes which (describe): Certification Statement my knowledge and belief, the proposed activity described in my Annual Placer Mining



RESPONSIBLE AGENCY

Arizona State Mine Inspector 1700 West Washington, Suite 400 Phoenix, AZ 85007

Telephone:

602/542-5971

Fax: 602/542-5335

Contact:

Paul Catanzariti

Reclamation Specialist

REGULATORY AUTHORITY

1. Arizona Mine Reclamation Law, ARS 27-901, et seq.

2. Arizona Administrative Code Rules R11-2-101, et seq.

PERMITTING REQUIREMENTS

♦ General Requirements

Prior to drilling an exploration well, the well owner or exploration firm shall file a Notice of Intent to Drill on a form provided by the Arizona Department of Water Resources. Mineral exploration, geotechnical, cathodic protection, or grounding holes of 100 feet of depth or less do not require the filing of a Notice of Intent to Drill. More than one well may be drilled under a single Notice, so long as they are located within a single section. Drilling of the well(s) shall be completed within one year after the date of the Notice. A Project Completion Report must be filed for each mineral exploration hole within 30 days of completion of drilling. A Well Driller's report for each non-mineral exploration hole drilled must be filed by the well driller within 30 days of completion of drilling. Drillers must have a valid Arizona well driller's license. A Notice of Intent to Drill is required regardless of land status (federal, state, or privately owned).

Beginning April 1, 1997, an owner or operator of a new exploration operation shall not create a surface disturbance of more than five contiguous acres until a reclamation plan and financial assurance mechanism for the exploration operation are approved by the state mine inspector. If the inspector fails to notify the owner or operator that the plan submitted is approved, incomplete or denied within ninety days of receipt, exploration may begin.

♦ Specific Requirements

1. File a Notice of Intent to Drill an Exploration Well(s) (on a form provided by the Department of Water Resources).

Information required:

- a. Well/land location;
- b. Applicant name and address;
- c. Owner of well;
- d. Purpose of well (i.e. mineral exploration, geotechnical, etc.);
- e. Number of wells (holes);
- f. Owner of land:
- g. Description of well;
- h. Schedule for drilling:
- i. Drilling firm;
- j. Period well will remain in use; and
- k. Proposed method of abandonment.
- 2. Fee of \$10 per Notice of Intent to Drill.
- 3. File a Project Completion Report for each mineral exploration hole within 30 days of completion of drilling.

Information required:

- a. The exact number of wells drilled;
- The depth to water encountered or detected, with reference to specific wells;
 and
- c. Any other information the Department may require.
- 4. A Well Driller's report for each non-mineral exploration hole drilled must be filed by the driller within 30 days of completion of drilling.
- 5. Effective April 1, 1997, a person who conducts exploration operations that will create more than five contiguous acres of surface disturbance shall submit a reclamation plan to the state mine inspector. The reclamation plan shall:
 - 1) identify the county or counties in which exploration will be conducted
 - 2) state the reclamation measures that will be taken to reclaim access roads, drill pads, etc.

- A one-time submission fee must be submitted with the reclamation plan. For fiscal year 1996-1997 the submission fee is three dollars per acre of surface disturbance covered by the plan.
- A financial assurance mechanism must be submitted to the state mine inspector within sixty days after a reclamation plan is approved.

♦ Reclamation Requirements

A reclamation plan for exploration operations should provide for the following requirements:

- 1. Exploration access roads that the operator constructs and that will not be part of post-exploration use shall be reclaimed in a timely manner after exploration is completed. If a governmental unit or agency will accept conveyance or dedication of an access road, reclamation is not required. Reclamation shall include removing culverts, restoring drainage to its general predisturbance configuration, ripping the road surface to reduce compaction and revegetation and controlling access of motorized vehicles to the reclaimed area.
- 2. Holes that are drilled for mineral exploration purposes, unless completed for water monitoring, withdrawal or other use, shall be plugged, sealed, or capped promptly after their use is completed as prescribed by rule by the department of water resources and as necessary to ensure the safety of persons, domestic animals, livestock and machinery in the area.
- Drill pads shall be reshaped promptly after completion of drilling to prevent erosion and to establish contours that are generally compatible with the adjacent areas or shall be ripped to reduce compaction and aid revegetation and, if appropriate, seeded to minimize erosion.

♦ Drill Hole Plugging Requirements

Exploration drill holes shall be plugged as follows:

- A drill hole not penetrating an aquifer shall include a surface seal which shall be accomplished as follows:
 - a. If the casing is removed from the top twenty feet of the well, a cement grout plug shall be set extending two feet below the land surface to a minimum of twenty feet below the land surface, and the well shall be backfilled above the top of the cement grout plug to the original land surface; and
 - b. If the casing is not removed from the top twenty feet of the well, a cement grout plug shall be set extending from the top of the casing to a minimum of twenty feet below the land surface, and the annular space outside the casing shall be filled with cement from the land surface to a minimum of twenty feet below the land surface.

- A drill hole penetrating a single aquifer system with no vertical flow components shall be filled with cement grout, concrete, bentonite drilling muds, clean sand with bentonite, or cuttings from the well. A surface seal shall be installed as described in (1) above.
- 3. A well penetrating a single or multiple aquifer system with vertical flow components shall be sealed with cement grout or a column of bentonite drilling mud of sufficient volume, density and viscosity to prevent fluid communication between aquifers. A surface seal shall be installed as described in (1) above.
- Materials containing organic or toxic matter shall not be used in the abandonment of a well.

Reclamation Surety Requirements

The owner or operator of an exploration operation shall transmit a financial assurance mechanism to the state mine inspector within sixty days after a reclamation plan is approved. The inspector shall take final action on the financial assurance mechanism within thirty days after it is received. Beginning April 1, 1997, the financial assurance mechanism must be submitted in an amount equivalent to two thousand dollars per acre of new surface disturbance, unless the inspector approves a cost estimate for an amount less than two thousand dollars per acre. In computing reclamation costs, the inspector shall assume that third parties will perform the reclamation measures, unless the operator demonstrates sufficient financial ability to perform reclamation. Financial assurance is not required that duplicates financial assurance under other state or federal laws. An owner may provide financial assurance on an incremental basis for planned surface disturbances consistent with the reclamation plan.

Following reclamation, the owner/operator may apply for release of financial assurance by providing descriptions of reclamation measures performed, description of areas that have not been disturbed and estimates of the costs of reclamation measures that have not been performed. The inspector may release all or part of the financial assurance, depending on reclamation work completed, except that ten percent shall be retained for the costs of care, monitoring and one reseeding, if necessary. The inspector shall release the retained monies after a period of not more than three growing seasons.

OTHER AGENCY CONTACTS

Mike Ball, Chief, Technical Support Unit Department of Water Resources Groundwater Management Support Section 500 North 3rd Street Phoenix, Arizona 85004 602/417-2470

Arizona State Land Department Natural Resources 1616 West Adams Phoenix, Arizona 85007 602/542-4628

Arizona Department of Environmental Quality 3033 N. Central Avenue Phoenix, Arizona 85012 602/207-2300

ARIZONA DEPARTMENT OF WATER RESOURCES

EXPLORATION WELL(s)

FILING FEE \$10.00

15 South 15th Avenue Phoenix, Arizona 85007

EXPLORATION WELL(s)

FILING FEE \$10.00

NOTICE OF INTENTION TO DRILL AND ABANDON EXPLORATION WELL(s)

Section \$45-596, Arizona Revised Statutes, and Rule 12-15-817 provide: Prior to drilling one or more exploration wells, the well owner, or exploration firm shall file a Notice of Intention to Drill on a form provided by the Department.

WELL/LAND LOCATION N/S E/W 1. Township Range Section In the case of a single well, list 10-acre subdivision.	6. Purpose of well(s) drilled pursuant to this Notice: Mineral Exploration					
10 ACRE 40 ACRE 160 ACRE 2. County	7. Number of wells (See Condition 4 on reverse side) 8. Owner of Land of wellsite:	10. Construction will start				
3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						
Applicant Name	Name	Month Day Year				
Address	Address	- 11. Drilling Firm:				
City State Zip	City State Zip	- Name				
4Name of Contact Person Phone	DO NOT WRITE IN THIS SPACE OFFICE RECORD File No					
5. Owner of Well:	Input By	City State Zip				
Name	DUPLICATE	DWR License Number				
	Mailed By	ROC License Category				
Address	Registration 55	12. Period well will remain in use:				
City State Zip	W/S S/B					
13. Proposed method of abandoment of	well(s) after project is completed:					
 Is the propsed wellsite within 100 feed or storage area of hazardous mater. Fill out this form in <u>DUPLICATE</u>: For specific instructions, limitations. I state that this Notice is filed in concomplete and correct to the best of forth on the reverse side of this form. 	GENERAL INSTRUCTIONS and send WITH \$10.00 FEE to 15 Source and conditions, see the reverse side of mpliance with Rule A.A.C. R12-15-8 my knowledge and belief and that m.	th 15th Avenue, Phoenix, AZ 85007. this form. 309 and R12-15-816(F), and is I understand the conditions set				
DWR 55-43-7/91(Rev)	Signature of App	licant/Owner				

CONDITIONS

- Construction and abandonment standards for all wells shall be in accordance with A.A.C. Rules R12-15-811 and Rules R12-15-816.
- 2. Drilling of well(s) shall be completed within one (1) year after the date of Notice.
- 3. Mineral exploration, geotechnical, cathodic protection or grounding holes of 100 feet of depth or less do not apply to these provisions and do not require filing. However, if water is encountered during the drilling of these well(s), then the well(s) must be properly abandoned in accordance with Condition 1 above.
- 4. More than one well may be drilled under a single notice for mineral exploration and geotechnical wells so long as they are located within a single section.
- 5. A Project Completion Report and WELL ABANDONMENT COMPLETION REPORT must be filed for each mineral exploration hole within thirty (30) days of completion of drilling. A Well Driller Report for each hole drilled, must be filed by the driller within thirty (30) days of completion of drilling for geotechnical, cathodic protection and grounding.
- The location of mineral exploration and geotechnical wells may be limited to the section, township and range. However, a complete legal description may be provided at the option of the well owner.
- Pump equipment may not be installed on wells drilled for mineral exploration, geotechnical, cathodic proctection or grounding purposes.

8.	Special	constr	uction	standa	rde ro	anima d			7740				y.
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9. To abandon a well in the course of drilling, the drilling contractor shall not remove the drilling rig from the well site, otherwise, a Notice of Intent to Abandon a Well must be filed prior to abandonment, and abandonment shall not commence until Department authority has been issued or, if during the course of drilling a well the Driller or owner elects to discontinue drilling and proceed with the abandonment of the well. The filing of a Well Abandonment Completion Report shall be filed within 30 days of abandonment, in accordance with R12-15-816.F.

DWR 85-43b-7/91(Rev

Phoenix, Arizona 85007

NOTICE OF INTENT TO ABANDON A WELL A.R.S. §45-594, R12-15-816: Well abandonment shall be performed only by a licensed well drilling contractor or single well licensee. The owner of a well shall file a Notice of Intent to Abandon the well prior to 1. Hell Location: NORTH Well Registration Number: Township 55-NW 4 NEL Well Owner: WEST EAST Position location of the well Name on the land: SEL Latitude Mailing Address SOUTH Longitude • • INDICATE WELL LOCATION BY X (Above diagram represents one DO NOT WRITE IN THIS SPACE Telephone 640 acre section) OFFICE RECORD File No. 5. Owner of the land: Filed County Assessor's ID: Input Name DUPLICATE Mailed Ву Address Registration DESCRIPTION OF WELL TO BE ABANDONED: City State Zip 7. Abandonment will begin: Month____ Year 8. Well Diameter inches 9. Well Depth 10. Type of Casing 11. Materials and methods to be used to abandon the well: 12. Reason for abandonment: 13. To your knowledge, is there any information that exists which indicates that the water in this well may be or is contaminated? Yes No . If yes, explain on an attached sheet. 14. Licensed Driller performing abandonment: Firm Name License No._____ Address City State Zip GENERAL INSTRUCTIONS 1. This form is to be used to obtain authority to abandon a well. 2. If this well has just been discovered pursuant to A.R.S. §45-593.D., and has not been registered, this form will serve to register the well when properly abandoned and reported. 3. Fill out this form in DUPLICATE and send to 15 South 15th Avenue, Phoenix, AZ 85007. 4. Construction standards for abandonment shall be in accordance with Department Rules and Regulations. I state that this Notice is filed in compliance with A.R.S. §45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief. Date: Signature of Well Owner:

MINERALS EXPLORATION COALITION 12/93

DWR 55-38-7/90

ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue Phoenix, Arizona 85007

PROJECT COMPLETION REPORT FOR MINERAL EXPLORATION DRILLING

This report must be prepared by the owner in all detail for each hole drilled and filed with the Department within 30 days following completion of the well drilling project. Owner Name: _____ Address: Street State Zip 2. Lessee or Operator Name: Address: Street City State Zip 3. Driller Name: Address: Street Zip ____N/S ___E/W ____1/4 _ Township Range Section 10-Acre 4. Location: 40-Acre WELL REGISTRATION NO. 55-____ _(REQUIRED) DESCRIPTION OF WELL 5. Type of Casing (if installed): 6. Abandonment method and material used if abandoned: Was well abandoned in the course of drilling pursuant to R12-15-816, F.? Yes_____ No___ 7. Date of period drilled: From: LOG OF WELL Unconsolidated Formation DO NOT WRITE IN THIS SPACE Consolidated Formation Depth to water in feet below land surface: OFFICE RECORD (if encountered or detected) Registration No. Received _____ By _____ I state that this report is filed in compliance with A.R.S. \$45-600 and is complete and correct to the best of my Entered _____ By ____ knowledge and belief. File No. ____

Date

MINERALS EXPLORATION COALITION 12/93

Owner/Lessee's Signature

DWR-55-57-7/91/Rev)

CALIFORNIA

RESPONSIBLE AGENCY

State Mining and Geology Board 801 K Street, MS 24-05 Sacramento, California 95814-3500

Telephone:

916/322-1082

Contact:

John Parrish, Ph.D.

Executive Officer

Office of Mine Reclamation California Department of Conservation 801 K Street, MS 09-06 Sacramento, California 95814-3529

Telephone:

916/323-9198

Contact:

Dennis J. O'Bryant

Assistant Director

REGULATORY AUTHORITY

- 1. California Public Resources Code section 2207
- Surface Mining and Reclamation Act of 1975, (California Public Resources Code section 2710 et seq.)
- 3. California Code of Regulations, (Title 14, Chapter 8, section 3500 et seq.)
- California Environmental Quality Act of 1970, (California Public Resources Code section 21001 et seq.)

PERMITTING REQUIREMENTS

♦ General Requirements

Mineral exploratory activities in California are regulated by the Surface Mining and Reclamation Act (SMARA). Pursuant to SMARA, no person shall conduct surface mining operations without obtaining lead agency (city or county) approval of: (1) a mining permit; (2) a reclamation plan; and (3) financial assurances for reclamation.

For the purposes of SMARA, exploratory and prospecting activities are considered a surface mining operation unless such activities include the removal of materials in a total amount of less than 1,000 cubic yards in any one location of an acre or less. SMARA also exempts from its reclamation requirements those exploratory activities that are required by federal law in order to protect a mining claim, if those activities are conducted solely for that purpose.

SMARA is administered by the State Mining and Geology Board, implemented at the local level by lead agencies, and enforced by the Office of Mine Reporting. For the purposes of implementing and clarifying SMARA, the State Mining and Geology Board adopts regulations (California Code of Regulations, section 3500 et seq.) with which surface mining operators and lead agencies must comply.

♦ Specific Requirements

- 1. Obtain a lead agency issued permit to conduct surface mining activities.
- Obtain lead agency approval of a reclamation plan. Reclamation plan requirements are specified under SMARA sections 2772 and 2773.
- Obtain a lead agency approved financial assurance for reclamation pursuant to SMARA section 2773.1. The amount of the assurance must be enough to cover the cost of reclamation, pursuant to the approved reclamation plan, for all lands remaining disturbed in a forthcoming 12-month period, and is reviewed, and as necessary, adjusted annually. The assurance must be made payable to the Department of Conservation and the lead agency, and may only take the form of: (1) a surety bond; (2) an irrevocable letter of credit; (3) a trust fund; or (4) other mechanisms as adopted by the State Mining and Geology Board through the regulatory process.
- 4. Undergo annual inspections by the lead agency.
- 5. Submit an annual report, together with an annual reporting fee, to the state as mandated by Public Resources Code section 2207. The reporting fee, as determined annually by the State Mining and Geology Board through the regulatory process, may not be less than \$50 or more than \$2,000 per mine.

- Obtain a lead agency approved Interim Management Plan, pursuant to SMARA section 2770(h), should the mining operation become idle as defined by SMARA section 2727.1.
- Comply with the provisions of the lead agency's local surface mining and reclamation ordinance.

Reclamation Standards

The following are minimum acceptable practices to be followed in surface mining operations:

- Erosion control facilities such as retarding basins, ditches, stream bank stabilization, and diking shall be constructed and maintained where necessary to control erosion.
- Settling ponds or basins shall be constructed to prevent potential sedimentation of streams.
- Operations shall be conducted to substantially prevent siltation of groundwater recharge areas.
- 4. All reasonable measures shall be taken to protect the habitat of fish and wildlife.
- Grading and revegetation shall be designed to minimize erosion and to convey surface runoff to natural drainage courses or interior basins designed for water storage.
- Disturbed areas shall be retopsoiled and revegetated, using a selection of species having good survival characteristics for the topography, soil characteristics, and climate of the mined areas.

♦ Drill Hole Plugging Requirements

There are currently no state drill hole plugging requirements.

♦ Reclamation Surety Requirements

Lead agencies shall require financial assurances of each surface mining operation, as follows:

 Financial assurances may take the form of surety bonds, irrevocable letters of credit, trust funds, or other forms of financial assurances specified by the state, in an amount the lead agency determines to be adequate to perform the reclamation in accordance with the surface mining operation's approved reclamation plan.

- 2. The financial assurance shall remain in effect for the duration of the surface mining operation and any additional period until reclamation is complete.
- The amount of financial assurances required for any one year shall be adjusted annually to account for new lands disturbed by surface mining operations, inflation, and reclamation of lands accomplished in accordance with the approved reclamation plan.
- 4. The financial assurances shall be made payable to the lead agency and the Department of Conservation.

OTHER AGENCY CONTACTS

California Office of Permit Assistance Governor's Office of Planning and Research 1400 Tenth Street Sacramento, California 95814 916/322-4245

Office of Mine Reclamation Reclamation Unit California Department of Conservation 801 K Street, MS 09-06 Sacramento, California 95814-3531 916/323-8567

COLORADO

RESPONSIBLE AGENCY

Department of Natural Resources

Division of Minerals and Geology 215 Centennial Building 1313 Sherman Street Denver, Colorado 80203

Telephone:

303/866-3567

Contact:

Carl Mount

Director

REGULATORY AUTHORITY

1. The Colorado Mined Land Reclamation Act, Article 32 of Title 34

2. Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board

PERMITTING REQUIREMENTS

♦ General Requirements

Any person desiring to conduct prospecting shall, prior to entry upon the lands (public or private), file with the Division of Minerals and Geology a Notice of Intent to Conduct Prospecting Operations on a form provided by the Colorado Mined Land Reclamation Board. The Board considers the term "exploration" to have the same meaning as the term "prospecting" within the Act and "development" as defined in the Act is a mining operation. If there is any question whether activities are considered prospecting or development, contact the Division.

Prospecting is defined as the act of searching for or investigating a mineral deposit. Prospecting includes, but is not limited to, sinking shafts, tunneling, drilling core and bore holes, and digging pits or cuts and other works for the purpose of extracting samples prior to commencement of development or extraction operations, and the building of roads, access ways, and other facilities related to such work. The term does not include those activities which cause no or very little surface disturbance, such as airborne surveys and photographs, uses of instruments or devices which are hand carried or otherwise transported over the surface to make magnetic, radioactive, or other tests and measurements, boundary or claim surveying, location work, or other work which causes no greater land disturbance than is

caused by ordinary lawful use of the land by persons not prospecting. The term also does not include any single activity which results in the disturbance of a single block of land totaling one thousand six hundred square feet or less of the land's surface, not to exceed two such disturbances per acre; except that the cumulative total of such disturbances will not exceed five acres statewide in any prospecting operation extending over twenty-four consecutive months.

All information provided the Division in a Notice of Intent to Conduct Prospecting shall be protected as confidential information by the Board and not be a matter of public record in the absence of written release from the operator or a finding by the Board of satisfactory

Specific Requirements

File Notice of Intent to Conduct Prospecting Operations.

Information required:

- Prospector name, address, and phone number; a. b.
- Contact name, address, and phone number;
- Description of lands Site name; location, by township and range; estimated C. acreage of surface disturbance; and map, USGS 7.5 minute quadrangle, or similar map;
- d. Date of commencement;
- Type of operation that will be undertaken; and e.
- f. Reclamation measures.
- A \$75 filing fee must accompany forms.
- Reclamation surety, in the amount of \$2000 per acre of land to be disturbed or 2. other such amount as determined by the Board. The financial warranty shall not be held for more than thirty days after the completion of reclamation.
- 3. Drill hole plugging.
- 4. Final report, to be filed no later than sixty days after the completion of the abandonment of any drill hole which has artesian flow at the surface, or no later than twelve months after the completion of the abandonment of any other drill holes.

Information required:

- Date of completion of abandonment; a.
- b. Drill hole location; and
- Description of plugging, sealing, and capping techniques.
- File of Notice of Completion of Prospecting Operations 5.

Within 90 days of the filing of the Notice of Completion, the Board shall notify the person who had conducted the prospecting operations of the steps necessary to reclaim the land.

Reclamation Standards

All lands affected by drilling must be reclaimed to a condition appropriate for the land use existing prior to exploration, or other beneficial use, upon completion of prospecting. The reclamation shall include, but not be limited to, the following:

- Trash removed from the site.
- Vegetation removed from the site must be properly disposed.
- Drill cuttings must be spread to a depth no greater than one-half inch or buried in an approved disposal pit.
- Mud pits shall be backfilled and graded to blend with the surrounding land surface.
- Disturbed areas must be reseeded with an appropriate seed mix during the first normal period favorable for planting.

♦ Drill Hole Plugging Requirements

All drill holes shall be permanently plugged, sealed, or capped immediately following the drilling of the hole and the collection of drill hole information, unless provision is made to temporarily abandon the hole. Drill hole abandonment shall be as follows:

- Any artesian flow of ground water to the surface shall be eliminated by a plug made of cement or a similar material or by a procedure sufficient to prevent such artesian flow.
- 2. Any drill hole which encounters an aquifer in volcanic or sedimentary rock, as aquifer is defined in section 37-90-103 (2), C.R.S., shall be sealed utilizing a sealing procedure which is adequate to prevent fluid communication between aquifers.
- 3. Each drill hole shall be securely capped at a minimum depth compatible with local cultivation practices or at a minimum of two feet below either the original land surface or the collar of the hole, whichever is lower elevation. The cap is to be made of concrete or other material which is satisfactory for such capping. The site shall be backfilled above the cap to the original land surface.
- 4. If any drill hole is to be ultimately used as or converted to a water well, the user shall comply with the applicable provisions of title 37, C.R.S.

 Each drill site shall be reclaimed pursuant to section 34-32-116, including, if necessary, reseeding if grass or any other crop was destroyed.

♦ Reclamation Surety Requirements

Upon filing the Notice of Intent to Conduct Prospecting, a financial warranty shall be provided in an amount of \$2000 per acre of disturbed land or other amount as determined by the Division. The amount shall be equal to the cost of reclaiming the area to be disturbed. A statewide financial warranty may be submitted by a single operator for all of its Colorado exploration activities in an amount determined by the Division of Minerals and Geology. Amounts are based upon projected costs of reclamation.

Under memorandums of understanding with the Bureau of Land Management and Forest Service, all financial warranties established to ensure reclamation are to be posted with the State of Colorado.

OTHER AGENCY CONTACTS

Colorado Department of Health 4210 East 11th Avenue Denver, Colorado 80220 303/331-4600

STATE OF COLORAL

DIVISION OF MINERALS AND GEOLOGY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106

NATUR Notice of Intent to Conduct Prospecting Information Roy Romer



Governor

James 5. Lochhead **Executive Director**

Michael B. Long Division Director

If you plan to conduct prospecting on any land in Colorado, you are required to file notice and a financial warranty for the prospecting operations with the Mined

"Prospecting is defined as the act of searching for or investigating a mineral deposit. "Prospecting" includes, but is not limited to, sinking shafts, tunneling, drilling core and bore holes and digging pits or cuts and other works for the. purpose of extracting samples prior to commencement of development or extraction operations, and the building of roads, access ways, and other facilities related to such work. The term does not include those activities which cause no or very little surface disturbance, such as airborne surveys and photographs, use of instruments or devices which are hand carried or otherwise transported over the surface to make magnetic, radioactive, or other tests and measurements, boundary or claim surveying, location work, or other work which causes no greater land disturbance than is caused by ordinary lawful use of the land by persons not prospecting. The term also does not include any single activity which results in the disturbance of a single block of land totalling 1600 square feet or less of the land surface, not to exceed two such disturbances per acre; except that the cumulative total of such disturbances will not exceed five acres statewide in any prospecting operation extending over twenty-four consecutive months.

You are encouraged to obtain and review a copy of the Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board, available for \$5.00 from the Division of Minerals and Geology (the "Division"). It is recommended that you review Rule 5

Filling Requirements

A "Notice of Intent to Conduct Prospecting Operations" form, an application fee of \$75.00, and a financial warranty must be filed with the Board prior to entry upon lands for the purpose of conducting prospecting. The "Notice" form and financial warranty forms can be obtained from the Division of Minerals and Geology.

Financial Warranty

A financial warranty must be provided prior to entry upon lands for the purpose of prospecting. The prospector can either file a "One Site Prospecting Financial Warranty" or a "Statewide Prospecting Financial Warranty".

The One Site Prospecting Financial Warranty is usually filed by individuals or small companies where prospecting activities are limited to a single area. It must be filed in the amount of \$2,000.00 per acre of land to be disturbed unless the prospector demonstrates that a lesser amount will cover what it would cost the Board to complete reclamation. A Statewide Financial Warranty is usually filed by larger companies with multiple prospecting sites. It must be filed in the amount of \$25,000.00.

The financial warranty for a prospecting site will be retained by the Board until the prospector has completed reclamation of the prospecting site and been released, in writing, of reclamation responsibility.

Processing of Notice and Financial Warranty

Upon filing of a Notice and Financial Warranty, the Division will review them and provide the prospector with a written notice of their adequacy. If problems are identified, the prospector will be requested to submit additional information. If no problems are identified, then the prospector will be notified that the notice and financial warranty filing requirements have been met, at which time you may begin prospecting operations.

Terms and Conditions for Prospecting Operations

Detailed terms and conditions for conducting prospecting are described in Rules 5.3 and 6 of the Mineral Rules and Regulations. A prospector can obtain a copy from the Division of Minerals and Geology. Briefly, a prospector must:

- Conduct prospecting operations so as to minimize surface disturbances. 2.
- Confine operations to areas near existing roads or trails, where practicable.
- Conduct drilling so as to prevent cuttings and fluids from entering dry 3. or flowing stream channels. 4.
- Abandon drill holes in timely manner as described in Rule 5.3 of the Regulations. 5.
- Complete reclamation of affected lands in a timely manner. 6.
- Comply with all applicable water quality laws and regulations. 7. Minimize adverse effects to wildlife.

Prospecting on BLM Land

The Board and the Bureau of Land Management have entered into a cooperative agreement that eliminates the need for a prospector to post a financial warranty with each agency and allows them to coordinate the review of the Notice in order to minimize administrative processing time and effort. If you plan to conduct prospecting on BLM land and wish to take advantage of the cooperative agreement, be sure to complete pages 5 and 6 of the "Notice of Intent" form. Send a complete copy of the notice to the BLM regional field office in the area of the proposed prospecting operation.